

NTSC

BETACAM SP

BVW-22

Betacam SP Player



Sony
Broadcast

SONY

BVW-22

(NTSC)

The BVW-22 Betacam SP Player is designed for use in the office, on the road, or wherever easy and simple operation is demanded. Maintaining playback compatibility with both conventional Betacam and Betacam SP VTRs, the BVW-22 can playback metal particle tape as well as oxide tape, and can accept either L-size or S-size cassettes. Moreover, four audio channels—two AFM audio channels and two longitudinal audio channels—can be reproduced. The user-friendly BVW-22, with such features as a simply designed control panel, built-in RF modulator, wired or wireless remote control function, and front loading system, allows users to view high quality video/audio programs very easily.

Features

Playback capability with metal/oxide cassette tape

The BVW-22 can playback metal particle tapes recorded by Betacam SP VTRs. Of course, conventional Betacam format videocassettes, which use oxide tape, can also be played back with the BVW-22. Thus the BVW-22 provides playback capability with both conventional Betacam and Betacam SP without any problem.

Longer playing time

The BVW-22 will provide playback time for more than 90 minutes when operating with an L-size cassette. In addition, the BVW-22 will accept S-size cassettes, which will provide more than 30 minutes of operating time. Sony offers a line-up of 5/10/20/30 minute Betacam SP S-size videocassettes and 60/90 minute L-size videocassettes.

Front loading system

All operational functions including tape cassette insertion are located on the front panel. This makes the BVW-22

very convenient, especially for use in offices and other places where space is limited.

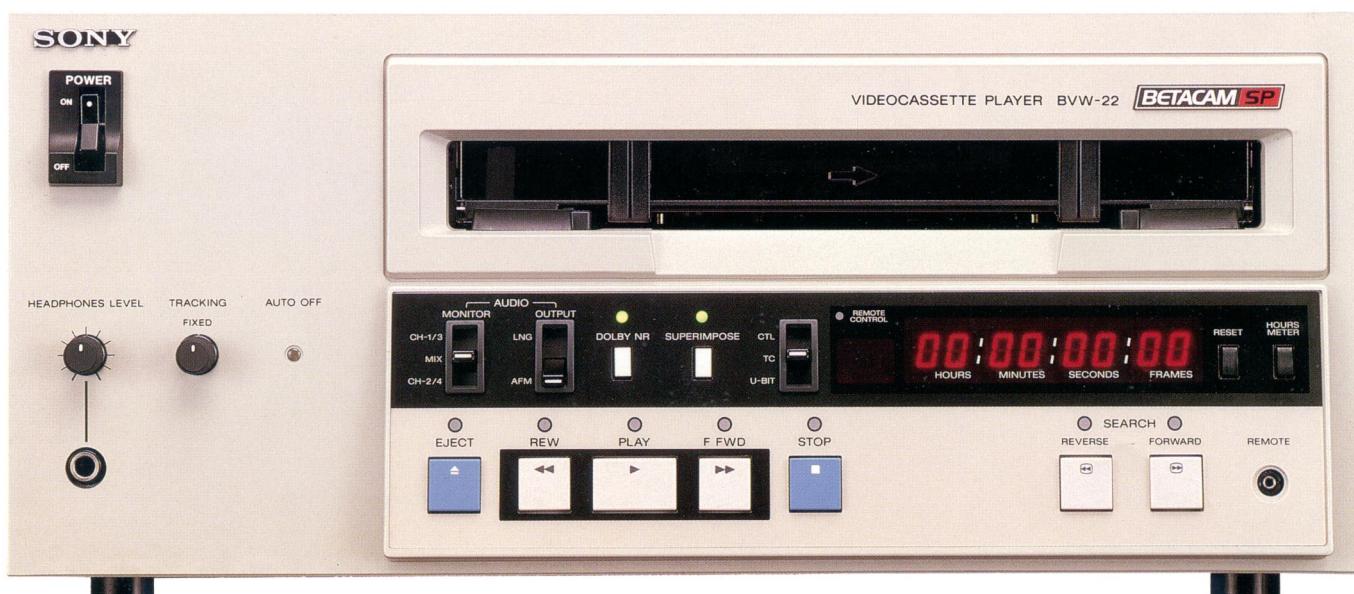
Four audio channels

In addition to the two conventional longitudinal audio channels, two AFM audio channels are included. The two longitudinal audio channels are provided with the type-C Dolby* NR (Noise Reduction) system. When metal tape cassettes are in use, Dolby C is automatically selected, but, when using oxide tapes, Dolby on/off is selectable via the front panel switch.

*Dolby is a trademark of the Dolby Laboratories Licensing Corporation.

Wired or wireless remote control (supplied)

The supplied simple Remote Control Unit (RM-770) and the infrared receiver, which is installed on the front panel of the BVW-22, allow wireless remote control of functions, such as playback, fast forward, rewind and 3.5 times normal speed search in the forward and reverse direction. In addition, a superimpose on/off switch is





provided. This Remote Control Unit is also supplied with a flexible five meter cable which allows wired remote control of the BVW-22 as well.

Picture search

In the search mode, recognizable monochrome pictures are obtained at 3.5 times normal speed in both the forward and reverse directions. The start speed has been carefully set to allow recognizable pictures to be seen as soon as picture search is initiated.

Built-in RF modulator

The BVW-22 provides a built-in RF modulator. Thus, by using the RF output, playback signals can be monitored on an ordinary TV receiver. American TV standard channel 3 or 4 can be easily selected.

Superimpose function

Time Code, CTL and User Bit information can be superimposed on a monitor through the VIDEO OUT, RF OUT, or MONITOR OUT. On/off mode can be controlled by a front panel switch or the Remote Control Unit (RM-770).

LED display

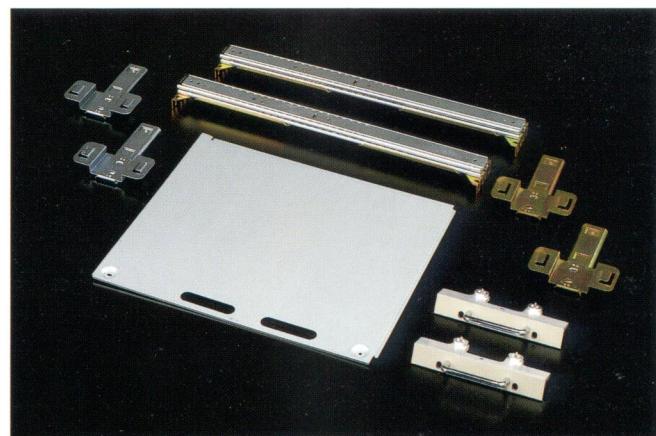
The 8-digit LED display shows Time Code, CTL, User Bit, and Hour Meter information. Error Messages and Adjustment details are also displayed in this area for service and maintenance purposes.

Video/Audio output

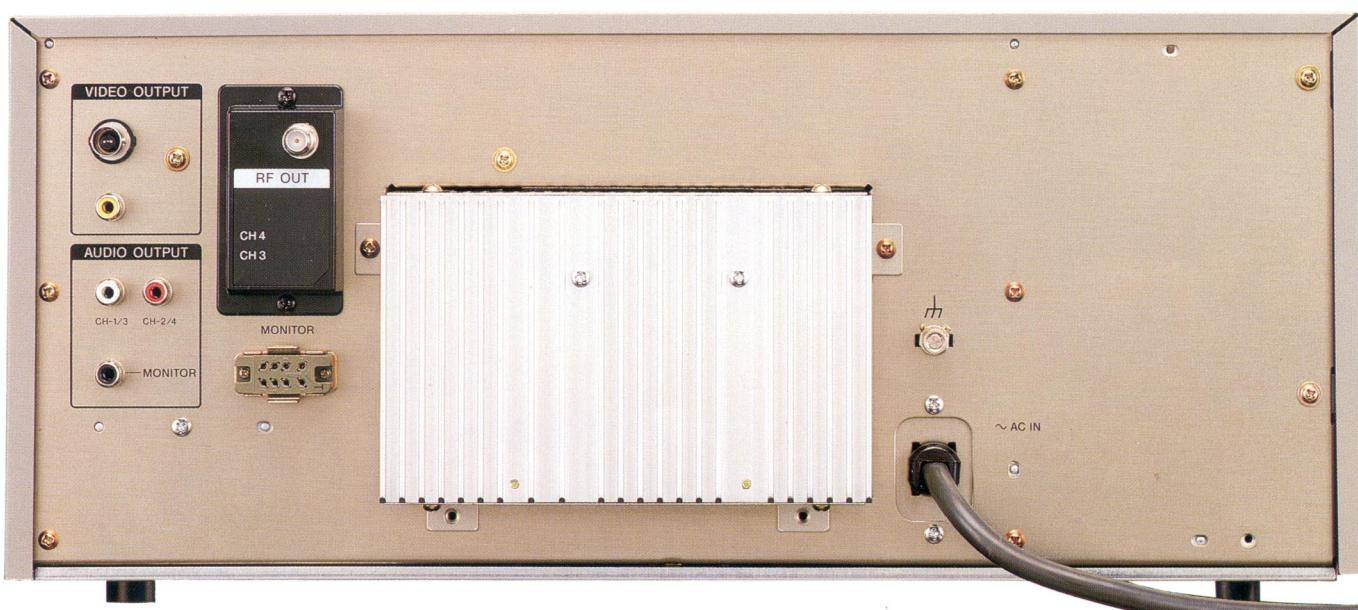
Audio outputs at line level from CH-1/3 and CH-2/4 are provided via phono connectors. A front panel switch allows selection of longitudinal or AFM channels. In addition, each channel can be fed independently or mixed (CH-1 with CH-2; CH-3 with CH-4) to an audio monitor phono connector. BNC and phono video output connectors and an 8-pin monitor output are provided.

19-inch rack mountable

The BVW-22 is four units high and it can be installed in a 19 inch EIA standard rack with the optional RMM-507 Rack Mount Kit. These features make the BVW-22 a space-saving system, and enable more efficient maintenance and service.



19" Rack Mount Kit
RMM-507 (optional)



Specifications

General

Power requirements	AC 90 ~ 132V, 45 ~ 66Hz
Power consumption	56W
Operating temperature	+ 5°C to + 40°C (+ 41°F to + 104°F)
Storage temperature	- 20°C to + 60°C (- 4°F to + 140°F)
Humidity	Less than 80% (relative humidity)
Weight	Approx. 15.6 kg (34 lb 7 oz)
Tape speed	11.86cm/sec.
Playback time	More than 90 min. (BCT-90ML), More than 30 min. (BCT-30M)
Fast forward/rewind time	Less than 240 sec. with BCT-90ML Less than 100 sec. with BCT-30M
Search speed	± 3.5 times normal speed

Signal outputs

VIDEO OUT (BNC) (PHONO jack)	Composite video, 1.0Vp-p, 75 ohms, sync negative
RF OUT (F type)	American TV standard VHF, ch-3/4 selectable
MONITOR OUT (8-pin)	Video, 1.0Vp-p, 75 ohms, sync negative Audio, -5dBs, 47k ohms, unbalanced
AUDIO LINE OUT (PHONO jack) CH-1/3, CH-2/4	-10dBs, 47k ohms, unbalanced
AUDIO MONITOR OUT (PHONO jack)	-5dBs, 47k ohms, unbalanced
HEADPHONES (STEREO PHONE jack)	-20dBs to -48dBs, 8 ohms

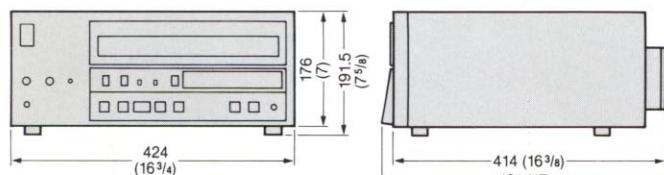
Others

REMOTE	Special mini jack
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Supplied accessories

RM-770 Remote Control Unit including remote control cable and battery (1)
Antenna selector (1)
Coaxial cables with F-type connector (2) (0.5m/2m)
Top cover (1)
Operation and maintenance manual (1)

Dimensions



Unit: mm (inches)

Design and specifications subject to change without notice.
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Video Performance

	Metal Particle Tape	Oxide Tape
Bandwidth	30Hz to 4.1MHz $\pm \frac{1}{2}$ dB	30Hz to 4.1MHz $\pm \frac{1}{2}$ dB
S/N ratio		
Luminance	49dB	47dB
Chrominance AM	51dB	50dB
PM	51dB	50dB
Distortion		
Differential gain	Less than 3%	Less than 3%
Differential phase	Less than 3°	Less than 3°
K-factor (2T pulse)	Less than 3%	Less than 3%
Y/C delay	Less than 20 nsec.	Less than 20 nsec.

Audio Performance

	Metal Particle Tape	Oxide Tape
Longitudinal		
Frequency response	50Hz to 15kHz $\pm \frac{1}{2}$ dB	50Hz to 15kHz $\pm \frac{1}{2}$ dB
S/N ratio		
(at 3% distortion level)	More than 72dB	More than 50dB (Dolby NR off)
Distortion (T.H.D., at 1kHz reference level)	Less than 2%	Less than 2%
Wow and flutter	Less than 0.13% rms	Less than 0.13% rms
AFM		
Frequency response	20Hz to 20kHz $\pm \frac{1}{2}$ dB	—
Dynamic range	More than 80dB	—
Distortion (T.H.D., at 1kHz reference level)	Less than 0.5%	—

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